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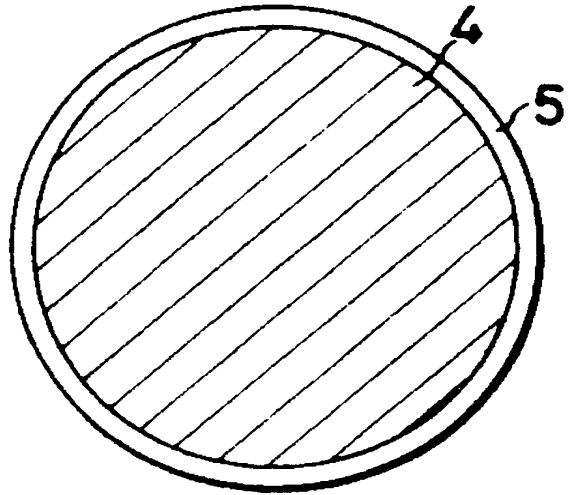
APPLICATION DATE : 11-07-79
APPLICATION NUMBER : 54087704

APPLICANT : TOSHIBA CORP;

INVENTOR : OHASHI KATSUJI;

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TITLE : DIRECTLY HEATED CATHODE OF
ELECTRON TUBE AND ITS
MANUFACTURE



ABSTRACT : PURPOSE: To improve the mechanical strength, emission characteristics, and life by forming a coating layer of a specific material on a core wire of tungsten.

CONSTITUTION: Coating layer 5 of sodium carbide or a tungsten carbide-thorium alloy is formed on the surface of a tungsten core wire 4. Thus, the mechanical strength and life of this core wire are improved because required tungsten carbide is limited to a least amount and a sufficient amount of thorium atoms is distributed near the surface.

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